

Figure 2) from the group consisting of:

- H1
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- (a) amino acids -26 through 194;
 - (b) amino acids 1 through 194;
 - (c) a polypeptide of subpart (a) or (b) wherein one or more cysteine residues is deleted or replaced by alanine or serine and wherein said cysteine residues are selected from the group consisting of amino acid positions 1, 13, 72, 101, 126, 128, 133, 138, 146, 167 and 175 in Figure 2;
 - (d) a polypeptide of subpart (a) or (b) wherein one or more tyrosine residues is replaced by phenylalanine and wherein said tyrosine residues are selected from the group consisting of amino acid positions 36, 45, 64, 84, 122, 139 and 178 in Figure 2;
 - (e) a polypeptide of any of subparts (a), (b), (c) or (d), lacking residues -26 through -1, and having a methionyl residue at position -1;

said process comprising:

growing, under suitable nutrient conditions, procaryotic or eucaryotic host cells transformed [or transfected] with a DNA according to claim 40, and isolating desired polypeptide products of the expression of DNA sequences in said vector.

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Kindly add new claims 52-59, as follows:

H2
-- 52. A DNA encoding a polypeptide product consisting of an amino acid sequence selected (according to the numbering as

presented in Figure 2) from the group consisting of:

(a) a polypeptide wherein one or more cysteine residues is deleted or replaced by alanine or serine and wherein said cysteine residues are selected from the group consisting of amino acid positions 1, 13, 72, 101, 126, 128, 133, 138, 146, 167 and 175 in Figure 2; and

(b) a polypeptide according to the metalloproteinase of Fig. 2 wherein one or more tyrosine residues is replaced by phenylalanine and wherein said tyrosine residues are selected from the group consisting of amino acid positions 36, 45, 64, 84, 122, 139 and 178.

53. A cDNA sequence according to claim 52.

54. A DNA sequence according to claim 52 including one or more codons preferred for expression in E. coli cells.

55. A DNA sequence according to claim 52 including one or more codons preferred for expression in yeast.

56. A DNA sequence according to claim 52 associated with a detectable label substance.

57. A biologically functional plasmid or viral vector

including a DNA sequence according to claim 52.

58. A procaryotic or eucaryotic host cell transformed with a DNA sequence according to claim 52 in a manner allowing the host cell to express said polypeptide product.

59. A process for the production of a polypeptide selected (according to the numbering as presented in Figure 2) from the group consisting of:

H²
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(a) a polypeptide wherein one or more cysteine residues is deleted or replaced by alanine or serine and wherein said cysteine residues are selected from the group consisting of amino acid positions 1, 13, 72, 101, 126, 128, 133, 138, 146, 167 and 175 in Figure 2; and

(b) a polypeptide according to the metalloproteinase of Fig. 2 wherein one or more tyrosine residues is replaced by phenylalanine and wherein said tyrosine residues are selected from the group consisting of amino acid positions 36, 45, 64, 84, 122, 139 and 178;

said process comprising:

growing, under suitable nutrient conditions, procaryotic or eucaryotic host cells transformed with a DNA according to claim 52, and isolating desired polypeptide products of the expression of DNA sequences in said vector. --